#### Abstract

The present invention relates to a bearing of a spindle motor for a hard disk drive which includes an aero dynamic pressure bearing which is fixedly installed in a space formed by a base and hub, a fluid dynamic pressure bearing which rotatably pivots the center of a in a radical direction and a thrust direction, and an air groove formed in such a manner that a certain space is formed between the hub and the aero dynamic pressure bearing after the hub is driven, wherein the aero dynamic pressure bearing and the fluid dynamic pressure bearing are directed to forming an upper side plane of which an upper side is extended in an outer radical direction like a spinning top for thereby implementing a conical shape in which a width of a lower side is decreased in a vertical direction.

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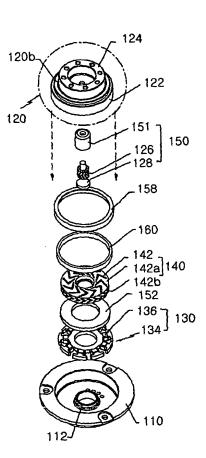
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#### (54) Title: HYBRID DYNAMIC PRESSURE BEARING OF SPINDLE MOTOR



(57) Abstract: The present invention relates to a bearing of a spindle motor for a hard disk drive which includes an aero dynamic pressure bearing which is fixedly installed in a space formed by a base and hub, a fluid dynamic pressure bearing which rotatably pivots the center of a hub in a radial direction and a thrust direction, and an air groove formed in such a manner that a certain space is formed between the hub and the aero dynamic pressure bearing after the hub is driven, wherein the aero dynamic pressure bearing and the fluid dynamic pressure bearing are directed to forming an upper side plane of which an upper side is extended in an outer radial direction like a spinning top for thereby implementing a conical shape in which a width of a lower side is decreased in a vertical direction.



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